



IFWO

## RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/10/663,158

TIME: 08:22:56

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\08042004\J663158.raw

3 <110> APPLICANT: Desauvage, Frederic  
 4 Grewal, Iqbal  
 5 Gurney, Austin L.  
 7 <120> TITLE OF INVENTION: TYPE I CYTOKINE RECEPTOR TCCR  
 9 <130> FILE REFERENCE: 11669.123USC1  
 11 <140> CURRENT APPLICATION NUMBER: US 10/663,158  
 12 <141> CURRENT FILING DATE: 2003-09-15  
 14 <150> PRIOR APPLICATION NUMBER: US 09/692,504  
 15 <151> PRIOR FILING DATE: 2000-10-18  
 17 <150> PRIOR APPLICATION NUMBER: US 60/160,542  
 18 <151> PRIOR FILING DATE: 1999-10-20  
 20 <160> NUMBER OF SEQ ID NOS: 16  
 22 <170> SOFTWARE: PatentIn version 3.1  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 636  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Homo sapiens  
 29 <400> SEQUENCE: 1  
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 32 1 5 10 15  
 35 Leu Ala Leu Leu Pro Leu Leu Trp Val Leu Phe Gln Arg Thr Arg Pro  
 36 20 25 30  
 39 Gln Gly Ser Ala Gly Pro Leu Gln Cys Tyr Gly Val Gly Pro Leu Gly  
 40 35 40 45  
 43 Asp Leu Asn Cys Ser Trp Glu Pro Leu Gly Asp Leu Gly Ala Pro Ser  
 44 50 55 60  
 47 Glu Leu His Leu Gln Ser Gln Lys Tyr Arg Ser Asn Lys Thr Gln Thr  
 48 65 70 75 80  
 51 Val Ala Val Ala Ala Gly Arg Ser Trp Val Ala Ile Pro Arg Glu Gln  
 52 85 90 95  
 55 Leu Thr Met Ser Asp Lys Leu Leu Val Trp Gly Thr Lys Ala Gly Gln  
 56 100 105 110  
 59 Pro Leu Trp Pro Pro Val Phe Val Asn Leu Glu Thr Gln Met Lys Pro  
 60 115 120 125  
 63 Asn Ala Pro Arg Leu Gly Pro Asp Val Asp Phe Ser Glu Asp Asp Pro  
 64 130 135 140  
 67 Leu Glu Ala Thr Val His Trp Ala Pro Pro Thr Trp Pro Ser His Lys  
 68 145 150 155 160  
 71 Val Leu Ile Cys Gln Phe His Tyr Arg Arg Cys Gln Glu Ala Ala Trp  
 72 165 170 175  
 75 Thr Leu Leu Glu Pro Glu Leu Lys Thr Ile Pro Leu Thr Pro Val Glu  
 76 180 185 190  
 79 Ile Gln Asp Leu Glu Leu Ala Thr Gly Tyr Lys Val Tyr Gly Arg Cys



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80          195          200          205
83 Arg Met Glu Lys Glu Glu Asp Leu Trp Gly Glu Trp Ser Pro Ile Leu
84      210          215          220
87 Ser Phe Gln Thr Pro Pro Ser Ala Pro Lys Asp Val Trp Val Ser Gly
88 225          230          235          240
91 Asn Leu Cys Gly Thr Pro Gly Gly Glu Glu Pro Leu Leu Leu Trp Lys
92          245          250          255
95 Ala Pro Gly Pro Cys Val Gln Val Ser Tyr Lys Val Trp Phe Trp Val
96          260          265          270
99 Gly Gly Arg Glu Leu Ser Pro Glu Gly Ile Thr Cys Cys Cys Ser Leu
100      275          280          285
103 Ile Pro Ser Gly Ala Glu Trp Ala Arg Val Ser Ala Val Asn Ala Thr
104      290          295          300
107 Ser Trp Glu Pro Leu Thr Asn Leu Ser Leu Val Cys Leu Asp Ser Ala
108 305          310          315          320
111 Ser Ala Pro Arg Ser Val Ala Val Ser Ser Ile Ala Gly Ser Thr Glu
112          325          330          335
115 Leu Leu Val Thr Trp Gln Pro Gly Pro Gly Glu Pro Leu Glu His Val
116          340          345          350
119 Val Asp Trp Ala Arg Asp Gly Asp Pro Leu Glu Lys Leu Asn Trp Val
120          355          360          365
123 Arg Leu Pro Pro Gly Asn Leu Ser Ala Leu Leu Pro Gly Asn Phe Thr
124          370          375          380
127 Val Gly Val Pro Tyr Arg Ile Thr Val Thr Ala Val Ser Ala Ser Gly
128 385          390          395          400
131 Leu Ala Ser Ala Ser Ser Val Trp Gly Phe Arg Glu Glu Leu Ala Pro
132          405          410          415
135 Leu Val Gly Pro Thr Leu Trp Arg Leu Gln Asp Ala Pro Pro Gly Thr
136          420          425          430
139 Pro Ala Ile Ala Trp Gly Glu Val Pro Arg His Gln Leu Arg Gly His
140          435          440          445
143 Leu Thr His Tyr Thr Leu Cys Ala Gln Ser Gly Thr Ser Pro Ser Val
144          450          455          460
147 Cys Met Asn Val Ser Gly Asn Thr Gln Ser Val Thr Leu Pro Asp Leu
148 465          470          475          480
151 Pro Trp Gly Pro Cys Glu Leu Trp Val Thr Ala Ser Thr Ile Ala Gly
152          485          490          495
155 Gln Gly Pro Pro Gly Pro Ile Leu Arg Leu His Leu Pro Asp Asn Thr
156          500          505          510
159 Leu Arg Trp Lys Val Leu Pro Gly Ile Leu Phe Leu Trp Gly Leu Phe
160          515          520          525
163 Leu Leu Gly Cys Gly Leu Ser Leu Ala Thr Ser Gly Arg Cys Tyr His
164          530          535          540
167 Leu Arg His Lys Val Leu Pro Arg Trp Val Trp Glu Lys Val Pro Asp
168 545          550          555          560
171 Pro Ala Asn Ser Ser Ser Gly Gln Pro His Met Glu Gln Val Pro Glu
172          565          570          575
175 Ala Gln Pro Leu Gly Asp Leu Pro Ile Leu Glu Val Glu Glu Met Glu
176          580          585          590

```

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```

179 Pro Pro Pro Val Met Glu Ser Ser Gln Pro Ala Gln Ala Thr Ala Pro
180      595      600      605
183 Leu Asp Ser Gly Tyr Glu Lys His Phe Leu Pro Thr Pro Glu Glu Leu
184      610      615      620
187 Gly Leu Leu Gly Pro Pro Arg Pro Gln Val Leu Ala
188 625      630      635
191 <210> SEQ ID NO: 2
192 <211> LENGTH: 623
193 <212> TYPE: PRT
194 <213> ORGANISM: Mus musculus
196 <400> SEQUENCE: 2
198 Met Asn Arg Leu Arg Val Ala Arg Leu Thr Pro Leu Glu Leu Leu Leu
199 1      5      10      15
202 Ser Leu Met Ser Leu Leu Leu Gly Thr Arg Pro His Gly Ser Pro Gly
203      20      25      30
206 Pro Leu Gln Cys Tyr Ser Val Gly Pro Leu Gly Ile Leu Asn Cys Ser
207      35      40      45
210 Trp Glu Pro Leu Gly Asp Leu Glu Thr Pro Pro Val Leu Tyr His Gln
211      50      55      60
214 Ser Gln Lys Tyr His Pro Asn Arg Val Trp Glu Val Lys Val Pro Ser
215 65      70      75      80
218 Lys Gln Ser Trp Val Thr Ile Pro Arg Glu Gln Phe Thr Met Ala Asp
219      85      90      95
222 Lys Leu Leu Ile Trp Gly Thr Gln Lys Gly Arg Pro Leu Trp Ser Ser
223      100     105     110
226 Val Ser Val Asn Leu Glu Thr Gln Met Lys Pro Asp Thr Pro Gln Ile
227      115     120     125
230 Phe Ser Gln Val Asp Ile Ser Glu Glu Ala Thr Leu Glu Ala Thr Val
231      130     135     140
234 Gln Trp Ala Pro Pro Val Trp Pro Pro Gln Lys Ala Leu Thr Cys Gln
235 145     150     155     160
238 Phe Arg Tyr Lys Glu Cys Gln Ala Glu Ala Trp Thr Arg Leu Glu Pro
239      165     170     175
242 Gln Leu Lys Thr Asp Gly Leu Thr Pro Val Glu Met Gln Asn Leu Glu
243      180     185     190
246 Pro Gly Thr Cys Tyr Gln Val Ser Gly Arg Cys Gln Val Glu Asn Gly
247      195     200     205
250 Tyr Pro Trp Gly Glu Trp Ser Ser Pro Leu Ser Phe Gln Thr Pro Phe
251      210     215     220
254 Leu Asp Pro Glu Asp Val Trp Val Ser Gly Thr Val Cys Glu Thr Ser
255 225     230     235     240
258 Gly Lys Arg Ala Ala Leu Leu Val Trp Lys Asp Pro Arg Pro Cys Val
259      245     250     255
262 Gln Val Thr Tyr Thr Val Trp Phe Gly Ala Gly Asp Ile Thr Thr Thr
263      260     265     270
266 Gln Glu Glu Val Pro Cys Cys Lys Ser Pro Val Pro Ala Trp Met Glu
267      275     280     285
270 Trp Ala Val Val Ser Pro Gly Asn Ser Thr Ser Trp Val Pro Pro Thr
271      290     295     300

```

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```

274 Asn Leu Ser Leu Val Cys Leu Ala Pro Glu Ser Ala Pro Cys Asp Val
275 305                      310                      315                      320
278 Gly Val Ser Ser Ala Asp Gly Ser Pro Gly Ile Lys Val Thr Trp Lys
279                      325                      330                      335
282 Gln Gly Thr Arg Lys Pro Leu Glu Tyr Val Val Asp Trp Ala Gln Asp
283                      340                      345                      350
286 Gly Asp Ser Leu Asp Lys Leu Asn Trp Thr Arg Leu Pro Pro Gly Asn
287                      355                      360                      365
290 Leu Ser Thr Leu Leu Pro Gly Glu Phe Lys Gly Gly Val Pro Tyr Arg
291                      370                      375                      380
294 Ile Thr Val Thr Ala Val Tyr Ser Gly Gly Leu Ala Ala Ala Pro Ser
295 385                      390                      395                      400
298 Val Trp Gly Phe Arg Glu Glu Leu Val Pro Leu Ala Gly Pro Ala Val
299                      405                      410                      415
302 Trp Arg Leu Pro Asp Asp Pro Pro Gly Thr Pro Val Val Ala Trp Gly
303                      420                      425                      430
306 Glu Val Pro Arg His Gln Leu Arg Gly Gln Ala Thr His Tyr Thr Phe
307                      435                      440                      445
310 Cys Ile Gln Ser Arg Gly Leu Ser Thr Val Cys Arg Asn Val Ser Ser
311                      450                      455                      460
314 Gln Thr Gln Thr Ala Thr Leu Pro Asn Leu His Ser Gly Ser Phe Lys
315 465                      470                      475                      480
318 Leu Trp Val Thr Val Ser Thr Val Ala Gly Gln Gly Pro Pro Gly Pro
319                      485                      490                      495
322 Asp Leu Ser Leu His Leu Pro Asp Asn Arg Ile Arg Trp Lys Ala Leu
323                      500                      505                      510
326 Pro Trp Phe Leu Ser Leu Trp Gly Leu Leu Leu Met Gly Cys Gly Leu
327                      515                      520                      525
330 Ser Leu Ala Ser Thr Arg Cys Leu Gln Ala Arg Cys Leu His Trp Arg
331                      530                      535                      540
334 His Lys Leu Leu Pro Gln Trp Ile Trp Glu Arg Val Pro Asp Pro Ala
335 545                      550                      555                      560
338 Asn Ser Asn Ser Gly Gln Pro Tyr Ile Lys Glu Val Ser Leu Pro Gln
339                      565                      570                      575
342 Pro Pro Lys Asp Gly Pro Ile Leu Glu Val Glu Glu Val Glu Leu Gln
343                      580                      585                      590
346 Pro Val Val Glu Ser Pro Lys Ala Ser Ala Pro Ile Tyr Ser Gly Tyr
347                      595                      600                      605
350 Glu Lys His Phe Leu Pro Thr Pro Glu Glu Leu Gly Leu Leu Val
351                      610                      615                      620

```

354 &lt;210&gt; SEQ ID NO: 3

355 &lt;211&gt; LENGTH: 2646

356 &lt;212&gt; TYPE: DNA

357 &lt;213&gt; ORGANISM: Homo sapiens

359 &lt;220&gt; FEATURE:

360 &lt;221&gt; NAME/KEY: misc\_feature

361 &lt;222&gt; LOCATION: (2433)..(2433)

362 &lt;223&gt; OTHER INFORMATION: n is a, c, t, or g

365 &lt;400&gt; SEQUENCE: 3

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Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\08042004\J663158.raw

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366 gtgggttcgg cttcccgttg cgcctcgggg gctgtaccca gagctcgaag aggagcagcg      60
368 cggcccgcac cgggcaaggc tgggcccggac tcgggggtcc cgagggacgc catgcgggga      120
370 ggcagggggcg cccctttctg gctgtggccg ctgcccaagc tggcgctgct gcctctgttg      180
372 tgggtgcttt tccagcggac gcgtccccag ggcagcgcgc ggccactgca gtgctacgga      240
374 gttggaccct tgggcgactt gaactgctcg tgggagcctc ttggggacct gggagcccc      300
376 tccgagttac acctccagag ccaaaagtac cgttccaaca aaaccacagac tgtggcagtg      360
378 gcagccggac ggagctgggt ggccattcct cgggaacagc tcaccatgtc tgacaaactc      420
380 cttgtctggg gcaactaaggc aggccagcct ctctggcccc ccgtcttcgt gaacctagaa      480
382 acccaaatga agccaaacgc cccccggctg ggccctgacg tggacttttc cgaggatgac      540
384 cccctggagg ccactgtcca ttggggcccca cctacatggc catctcataa agttctgac      600
386 tgccagttcc actaccgaag atgtcaggag gcggcctgga cctgctgga accggagctg      660
388 aagaccatac cctgaccccc tgttgagatc caagatttgg agctagccac tggctacaaa      720
390 gtgtatggcc gctgccggat ggagaaagaa gaggatttgt ggggcgagtg gagccccatt      780
392 ttgtccttcc agacaccgcc ttctgtccca aaagatgtgt gggatatcagg gaacctctgt      840
394 gggacgcctg gaggagagga acctttgctt ctatggaagg ccccagggcc ctgtgtgcag      900
396 gtgagctaca aagtctggtt ctgggttga ggtcgtgagc tgagtccaga aggaattacc      960
398 tgctgtctgt ccctaattcc cagtggggcg gagtgggcca ggggtgtccgc tgtcaacgcc      1020
400 acaagctggg agcctctcac caacctctct ttggtctgct tggattcagc ctctgcccc      1080
402 cgtagcgtgg agtcagcag catcgtctgg agcacggagc tactggtgac ctggcaaccg      1140
404 gggcctgggg aaccactgga gcatgtagt gactgggtc gagatgggga cccctggag      1200
406 aaactcaact ggggtccggt tccccctggg aacctcagt ctctgttacc aggggaatttc      1260
408 actgtcgggg tccccatctg aatcactgtg accgcagtct ctgcttcagg cttggcctct      1320
410 gcacctccg tctggggggt cagggaggaa ttagcaccct tagtggggcc aacgcttttg      1380
412 cgactccaag atgccccctc agggaccccc gccatagcgt ggggagaggt cccaaggcac      1440
414 cagcttcgag gccacctcac ccactacacc ttgtgtgcac agagtggaa cagccccctc      1500
416 gtctgcatga atgtgagtg caacacacag agtgtcacc tgctgacct tcttgggggt      1560
418 cctgtgagc tgtgggtgac agcatctacc atcgtctggc agggccctcc tgggtccatc      1620
420 ctccggttcc atctaccaga taacaccctg aggtggaaa ttctgccggg catectattc      1680
422 ttgtgggggt tgttctctgt ggggtgtggc ctgagcctgg ccacctctgg aaggtgctac      1740
424 cacctaaggc acaaagtgt gcccgcctgg gtctgggaga aagttcctga tctgccaac      1800
426 agcagttcag gccagcccc catggagcaa gtacctgagg cccagcccc tggggacttg      1860
428 cccatccctg aagtggagga gatggagccc ccgccggtta tggagtcctc ccagcccgc      1920
430 caggccaccg cccgccttga ctctgggtat gagaagcact tctgcccc acctgaggag      1980
432 ctgggccttc tggggccccc caggccacag gttctggcct gaaccacacg tctggctggg      2040
434 ggctgccagc caggctagag ggatgtcat gcaggttgca cccagtcct ggattagccc      2100
436 tcttgatgga tgaagacact gaggactcag agaggtgag tcacttacct gaggacacc      2160
438 agccaggcag agctgggatt gaaggacccc tatagagaag ggcttggccc ccatggggaa      2220
440 gacacggatg gaaggtggag caaaggaaaa tacatgaaat tgagagtggc agctgcctgc      2280
442 caaaatctgt tccgctgtaa cagaactgaa tttggacccc agcacagtgg ctcacgcctg      2340
444 taatcccagc actttggcag gccaaagtgg aaggatcact tagagctagg agtttgagac      2400
W--> 446 cagcctgggc aatatagcaa gaccctcac tanaaaaata aaacatcaaa aacaaaaaca      2460
448 attagctggg catgatggca cacacctgta gtccgagcca cttgggagggc tgaggtggga      2520
450 ggatcgggtt agcccaggag ttgaagctg cagggacctc tgattgcacc actgcactcc      2580
452 aggtcgggta acagaatgag acctatctc aaaaaataac aaactaataa aaaaaaaaaa      2640
454 aaaaaa
457 <210> SEQ ID NO: 4
458 <211> LENGTH: 2005
459 <212> TYPE: DNA
460 <213> ORGANISM: Mus musculus

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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 08/04/2004

PATENT APPLICATION: US/10/663,158

TIME: 08:22:57

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\08042004\J663158.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 2433

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/663,158

DATE: 08/04/2004

TIME: 08:22:57

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\08042004\J663158.raw

L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:2400